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of the various orders. I wish to mention the kindness and courtesy shown me by Col. F. A. Blake and his family, and also Mr. Barker.

There are other lists that the student may consult with profit in conjunction with this. They are as follows:

Lists of the Lepidoptera and Coleoptera Collected in New Mexico. By F. H. Snow.

Trans. Kansas Academy of Science, viii, 35, 1883.

The Entomology of the Mid-Alpine Zone of Custer County, Colorado. By T. D. A. Cockerell, Trans. Amer. Ent. Soc., xx, 305, 1893.

Insects of the Hudsonian Zone, Psyche, vol. ix.

A first List of the Orthoptera of New Mexico. By Scudder and Cockerell, Proc. Davenport Acad. Sciences, ix, 1902.

Some additional records have been entered from material collected by Mr. Henry L. Viereck on the 29th and 30th of June of this year.*

Unless otherwise stated the first letter after a species indicates the name of the determiner, and the following letter or letters indicate the collector.

LEPIDOPTERA OF BEULAH, NEW MEXICO.

BY HENRY SKINNER.

RHOPALOCERA.

Argynnis nitocris var. *nigrocærulea*

Chll.†

nausicaa Edw.

aphrodite var. *cypris* Edw.

atlantis var. *electa* Edw.

Melitæa nubigena Bahr.

Phyciodes tharos Drury.

Grapta faunus Edw.

Grapta comma Harr.

Vanessa antiopa Linn.

milberti Godt.

Pyrameis cardui Linn.

atalanta Linn.

Limenitis weidemeyeri.

Satyrus charon Edw.

Lemonias nais Edw.

* 1902.

† *Argynnis nitocris* was described from a single male, by Mr. W. H. Edwards in 1874. It was taken in the White Mountains of northeast Arizona. The female was described by the same author in the Can. Ent. in 1883. A few females have been taken in Colorado and Nevada. Strecker described a female from the Rio Florida, S. W. Colorado, in 1883, under the name aberration *nokomis*. In 1900 Prof. Cockerell found a variety of the species at Beulah which he named *nigrocærulea*. This species has been one of the great rarities in collections, and it is probably due to the fact of its late flight and very local habitat. It was abundant after the middle of August below Barker's ranch (7200 ft.), but I did not see a single specimen in the canon above this place. Their headquarters seemed to be between Barker's saw-mill and Heinlen's ranch. Their flight is swift and the species is wary, but is readily taken if approached carefully while it is feeding on the flowers of a tall sunflower which grows rather abundantly at this place in the

Thecla crysalus *Edw.*
titus *Fab.*
calanus *Hbn.*
Lycæna rustica *Edw.*
melissa *Edw.*
comyntas *Godt.*
Neophasia menapia *Feld.*
Pieris occidentalis *Reak.*
napi *Linn.*

Nathalis iole *Bd.*
Anthocharis ausonides *Bd.*
Colias cæsonia *Stoll.*
eurytheme *Bd.*
alexandra *Edw.*
Pamphila comma *var.*
sylvanoides *Bd.*
snowi *Edw.*
Pholisora pirus *Edw.*

HETEROCERA.

ABBREVIATIONS.

The first letter after a species denotes the determiner, and the next letter or letters the collector.

Sm.—Smith, J. B.

B. Beutenmuller, W.

S.—Skinner, H.

C.—Cockerell, T. D. A.

D.—Dyar, H. G.

Deilephila lineata *Fabr.* S., S.
Bembecia marginata *Harr.* B., C.
Alypia lorquini *G. and R.* S., S.
Gnophæla vermiculata *G. and R.* S., S.
clappiana *Holl.* S. S.
Crambidia casta *Sanb.* D., C.
Crocota brevicornis *Walk.* S., S.
quinaria *Grt.* D., C.
Platartia hyperborea *Curt.* S., S.

Arctia determinata *Neum.* S., S.
Clisiocampa fragilis *Stretch.* C., C.
Peridromia sancia *Hbn.* S., S.
astriata *Morr.* S. S.
Noctua baja smithii, *Snell.* S., S.
clandestina *Harr.* S., S.
Feltia tricola *Lint.* S., S.
circumdata *Grt.* S., S.
herilis *Grt.* S., S.

canon. Most of the females were taken in a damp meadow near some old buildings below the saw-mill. Violets grow in profusion in this meadow. The males when not feeding on the sunflowers were seen "dipping" over the meadow in search of the freshly emerged females.

This habit of flight, which I call dipping, seems to be peculiar to the males of certain species of *Argynnis* while in search of the females hiding in long meadow grass. This is the only species in the genus, as far as I have observed, that seems partial to sunflowers. During my stay I took about one hundred specimens and could have obtained many more. Mrs. Cockerell succeeded in obtaining eggs of the species. I have received the variety *cærulescens* described by Dr. Holland from Mexican specimens, from the Santa Catalina Mountains in southern Arizona. *Nitocris* is a fine species and its varieties are handsome, and doubtless other forms of the species will be found when the high mountain valleys of the Southwest are better known. The species is found as late as the middle of September; Dr. Holland's variety having been taken in the Piedras Verdes (7100 to 7300 ft.) in Chihuahua, Mexico, September 15th.

Carneades insignata Walk. Sm., S.
ridingsiana Grt. S., S.
insulsa Walk. S., S.
gagates Grt. Sm., C.
Xylophasia suffusca Morr. Sm., C.
Mamestra olivacea Morr. S., S.
determinata Sm. S., Sm.
renigera Steph.
imbrifera Gn.
Pseudanarta flavidens Grt.
Oncocnemis colorado Smith. Sm., C.
Nephelodes minians Gn.
Hydroecia atlantica Smith. Sm., S.
velata Walk. Sm. S.
juvenilis Grt. Sm. S.
Leucania pallens Linn. S., S.
albilinea Hbn. S., S.
Orthodes virgula Grt. Sm., C.

Ingura sp.
Plusia bimaculata Steph. S., S.
celsa Hy. Edw. S., S.
alticola Walk. S., S.
brassicæ Riley. S., S.
Grotella dis Grt. Sm., S.
Pseudanthœcia tumida Grt. S., S.
Sieya macularia Harr. S. S.
Lychnosea helveolaria Hulst. S. S.
Triphosa dubitata Linn. S., S.
Emplocia fervifactoria Grt. S., S.
Loxostege cereralis Zell. S., S.
Ethmia discostigella Ch. D., C.
Epithecthis bicostomaculella Chamb.
D., C.
Gelechia versutella, Zeller. D., C.
Argyresthiæ goedartella Linn. D., C.

COLEOPTERA.

BY HENRY SKINNER.

ABBREVIATIONS.

The first letter after a species denotes the determiner, and the next letter or letters the collector.

S.—Skinner, H.

D.—Van Dyke, E. C.

F.—Fall, H. C.

W.—Wickham, H. F.

H.—Hopkins, A. D.

C.—Cockerell, T. D. A.

W. P.—Wilmatte Porter.

W. P. C.—Wilmatte Porter Cockerell.

CICINDELIDÆ.

Cicindela longilabris Say. S., S.
var. cimarrona Lec. S., S.
var. micans Fab. S., S.
var. oregona Lec. S., S.

CARABIDÆ.

Cychrus elevatus Fab. var. S., S.
Carabus tædatus Fab. S., S.

Calasoma obsoletum Say. S., S.
Bembidium lucidum Lec. D., S.
mutatum G. and H. D., S.
quadrimaculatum Linn. D., S.
Tachys nanus Gyll. S., S.
Pterostichus longulus Lec. S., S.
substriatus Lec. D. S.
luczotii Dej. D., S.
femoralis Kirby. F., C.*